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(Dh-7) *Radiosensitization and Radioprotection on Murine Chondrosarcoma*. JOSÉ N. CORREA, GABRIEL A. INFANTE, JAIME MARTINEZ,* EILEEN ORTA,* EDRICK MORALES,* AND DANIEL CRUZ,* Catholic University of Puerto Rico, Ponce, Puerto Rico, 00731.

Radioprotection characteristics of cysteine, methionine and glutathione and radiosensitization characteristics of menadione and duroquinone have been well established in our laboratories. Using these radioprotectors and radiosensitizers *in vivo* studies have been carried out on Balb-C mice to which chondrosarcoma have been transplanted. The radioprotection and radiosensitization effects by means of D_0 value have been measured by means of Lung Colony Assay Technique.

The results obtained in this research effort suggest that these radiosensitizers and radioprotectors could improve the radiotherapeutic treatment of cancerous tissues. (Support for this work from MBS-NIH Grant No. 2-S06-RR-08067-07 is gratefully acknowledge.)